

EXHIBIT 10



THE UNITED STATES PATENT AND TRADEMARK OFFICE

*K. Ward
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APPLICANTS: Paulick, Thomas E. 260 EXAMINER: Pham, C.
 SERIAL NO.: 08/023,234 GROUP: 2611
 FILED: February 25, 1993 CASE NO.: CE00802RW01
 ENTITLED: Receiver Having Concealed External Antenna

*3-18-96
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Motorola, Inc.
 Corporate Offices
 1303 E. Algonquin Road
 Schaumburg, IL 60196
 February 28, 1996

AMENDMENT and RESPONSE

Honorable Commissioner of
 Patents and Trademarks
 Washington, D.C. 20231

Dear Sir:

In response to the Office Action dated 31 August 1995, the applicant hereby
 submits the following amendment and response.

In The Claims:

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- (Amended 8/26/94, 6/2/95, 2/28/96) A combination radiotelephone/pager unit including a user interface, comprising:
 - a housing enclosing radiotelephone and pager circuitry;
 - a radiotelephone antenna coupled to the radiotelephone circuitry; and
 - a pager antenna coupled to the pager circuitry;
 wherein the pager antenna forms a loop surrounding at least a portion of the user interface and is disposed between an outside surface of the housing and the at least a portion of the user interface.

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2. (Amended 8/26/94) A combination radiotelephone/pager unit according to claim 1 further comprising a shield for shielding at least one of the radiotelephone and pager circuitry.

3. (Amended 8/26/94) A combination radiotelephone/pager unit according to claim 1 wherein the user interface further comprises at least one of the following: an acoustic, a visual and a tactile interface.

4. A combination radiotelephone/pager unit according to claim 3 wherein the acoustic, visual and tactile interface further comprises an electroacoustic transducer, a display and a switch, respectively.

5. Please cancel, without prejudice.

6. A combination radiotelephone/pager unit according to claim 1 wherein the pager antenna is integrally formed with at least a portion of the user interface.

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7. (Amended 8/26/94, 6/2/95, 2/28/96) A combination radiotelephone/pager unit comprising:

a housing enclosing radiotelephone and pager circuitry;

a radiotelephone antenna coupled to the radiotelephone circuitry;

a pager antenna coupled to the pager circuitry and attached to an outside, nonconductive surface of the housing; and

a substantially planar cover, attached to the outside surface of the housing, for concealing the pager antenna between the cover and the outside surface of the housing such that the antenna is unnoticeable to a user of the unit.

8. A combination radiotelephone/pager unit according to claim 7 wherein the cover further comprises at least one of the following: a hand grip, a keypad, a lens, an escutcheon, a keypad and a cap.

9. (Amended 8/26/94) A combination radiotelephone/pager unit according to claim 7 further comprising a shield for shielding at least one of the radiotelephone and pager circuitry.

10. A combination radiotelephone/pager unit according to claim 7 wherein the pager antenna is disposed between the outside surface of the housing and the cover.

11. A combination radiotelephone/pager unit according to claim 7 wherein the pager antenna is integrally formed with the cover.

12. A combination radiotelephone/pager unit according to claim 7 wherein the pager antenna further comprises a loop antenna.

13. A combination radiotelephone/pager unit according to claim 12 further comprises user interface substantially surrounded by the loop antenna.

14. A combination radiotelephone/pager unit according to claim 13 wherein the user interface further comprises at least one of the following: an acoustic, a visual and a tactile interface.

D3 15. (Amended 8/26/94, 6/2/95, 2/28/96) A receiver including a user interface comprising:
a housing;
receiver circuitry disposed in the housing; and
an antenna coupled to the receiver circuitry;
wherein the antenna forms a loop surrounding at least a portion of the user interface and is disposed between an outside surface of the housing and the at least a portion of the user interface.

16. A receiver according to claim 15 wherein the user interface further comprises at least one of the following: an acoustic, a visual and a tactile interface.

17. (Amended 6/2/95) A receiver according to claim 16 wherein the acoustic, visual and tactile interface further comprises an electroacoustic transducer, a display and a switch, respectively.

18. Canceled 8/26/94, without prejudice.

19. A receiver according to claim 15 wherein the antenna is integrally formed with at least a portion of the user interface.

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20. (Amended 8/26/94, 6/2/95, 2/28/96) A receiver comprising:
a housing;
receiver circuitry disposed in the housing;
an antenna coupled to the receiver circuitry and attached to an outside,
nonconductive surface of the housing; and
a substantially planar cover, attached to the outside surface of the housing, for
concealing the antenna between the cover and the outside surface of the housing such
that the antenna is unnoticeable to a user of the receiver.

21. (Amended 6/2/95) A receiver according to claim 20 wherein the cover further
comprises at least one of the following: a hand grip, a keypad, a lens, an escutcheon,
a keypad and a cap.

22. (Amended 6/2/95) A receiver according to claim 20 wherein the antenna is
disposed between the outside surface of the housing and the cover.

23. (Amended 6/2/95) A receiver according to claim 20 wherein the antenna is
integrally formed with the cover.

24. (Amended 6/2/95) A receiver according to claim 20 wherein the antenna
further comprises a loop antenna

25. (Amended 8/26/94, 6/2/95) A receiver according to claim 24 further comprises
a user interface substantially surrounded by the loop antenna.

26. (Amended 8/26/94, 6/2/95) A receiver according to claim 25 wherein the user
interface further comprises at least one of the following: an acoustic, a visual and a
tactile interface.

REMARKS

Claims 1-4, 6, 15-17 and 19 were rejected by Examiner under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Examiner stated that claim 1-4, 6, 15-17, and 19 would be all allowable if rewritten or amended to overcome the rejection under 35 U.S.C. 112. Claims 1 and 15 have been amended to overcome the Examiner's rejection. Therefore, claims 1-4, 6, 15-17 and 19 are in a condition for allowance.

Claims 20-22 were rejected by Examiner under 35 U.S.C. § 102 (e) as being anticipated by Yokoyama (U.S. Pat. No. 5,392,461). Claim 20 has been amended to recite that the antenna is coupled to the receiver circuitry and attached to an outside, nonconductive surface of the housing. Yokoyama teaches that the antenna section 31 is exposed to a space outside of the shielding case 33. (col. 2, line 45) Yokoyama also teaches that the shielding case 33 is conductive. Yokoyama does not teach that the antenna section 31 is attached to an outside, nonconductive surface of the shielding case 33. If the antenna section 31 were attached to an outside surface of the shielding case 33, as the Examiner described, the antenna section 31 would not work properly. The conductive surface of the shielding case 33 would effectively ground the antenna section 31 or significantly interfere with the operation of the antenna section 31. Therefore, claims 20-26 are now in a condition for allowance.

Examiner rejected claim 24 under 35 U.S.C. § 103 as being unpatentable over Yokoyama. Claim 24 is dependent upon a presumably allowable independent claim 20, and therefore in a condition for allowance.

Claims 7-10 and 12 are rejected under 35 U.S.C. § 103 as being unpatentable over Yokoyama in view of Metroka, et al. (U.S. Pat. No. 5,117,449). Claim 7 has been amended to recite that the pager antenna is coupled to the pager circuitry and attached to an outside, nonconductive surface of the housing. The same argument as for claim 20 applies here. Therefore, claim 7-14 are now in a condition for allowance.

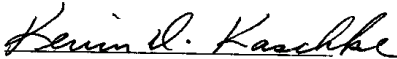
Examiner stated that claims 11, 13, 14, 23, 25, and 26 were objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in

independent form including all of the limitations of the base claim and any intervening claims. Claims 7 and 20 have been amended to overcome the Examiner's rejections. Claims (11, 13, 14), (23, 25, and 26) are dependent upon a presumably allowable independent claims 7 and 20, respectively, and therefore in a condition for allowance.

Accordingly, the applicant respectfully request reconsideration of the claims and passage to allowance at the earliest possible date.

Respectfully submitted,

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